Customer Number 22,852 Attorney Docket No. 08725,0018-00000

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: HEAT PUMP SYSTEM the specification of which is attached and/or was filed on as United States Application No. or PCT International Application No. and was amended on (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate or

Thereby calim to large priority benefits under 35 0.3.C. § 114(a) of § 355(d) of any PCT international application(s) designating at least one country other than the United States, listed below and have also identified below, any foreign application(s) for patent or inventor's certificate, or any PCT International application(s) having a filing date before that of the application(s) of which priority is claimed:

Country	Application Number	Date of Filing	Priority Claimed Under 35 U.S.C. 119	
	· · · · · · · · · · · · · · · · · · ·		☐ YES ☐ NO	
			☐ YES ☐ NO	
I hereby claim the benefit under	35 U.S.C. § 119(e) of any Unite	ed States provisional appl	ication(s) listed below:	
Applicat	ion Number		Date of Filing	
the United States, listed below and, PCT International application(s) in t	insofar as the subject matter of the manner provided by the first of in 37 CFR § 1.56 which beca	f each of the claims of the paragraph of 35 U.S.C.	365(c) of any PCT International application(s) designatists application is not disclosed in the prior United States 112, I acknowledge the duty to disclose information will filing date of the prior application(s) and the national or	or hich
Application Number		Date of Filing	Status (Patented, Pending, Abandoned)	

I hereby appoint the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., CUSTOMER NUMBER 22,852, Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilley, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajefsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; Davld W. Hill, Reg. No. 28,202 Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 25,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewris, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; Roger D. Taylor, Reg. No. 28,992; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,207; Walter Y, Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 32,241; Thomas W. Banks, Reg. No. 32,120; James K. Harrmond, Reg. No. 31,734; J. Michael Jakes, Reg. No. 32,241; Thomas W. Banks, Reg. No. 32,179; Christopher P. Isaac, Reg. No. 33,694; Vincent P. Kovalick, Reg. No. 32,657; James W. Edmondson, Reg. No. 33,871; Mi

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Frank W. Rattiff

Attorney Docket No. 08726.0018-00000

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